



PFAS: STATE IMPACTS

Renea Hall – PFAS Staff Lead

FEBRUARY 6, 2020

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EPA'S EFFORTS

- UCMR3 Results/Lifetime health advisory (May 2016):-
Combined PFOA and PFOS (70 ppt)
- PFAS Action Plan
 - Groundwater Guidance (Dec 2019)- address federal cleanup
 - Adding PFAS to the TRI, requiring manufacturers to disclose quantities. Decision on limits and which PFAS
 - MCL Determination (PFOA/PFOS) – OMB for interagency review
 - Method development for other media (DW, SW, WW, biosolids, and sediments).
 - Detect up to 26 PFASs out of a universe of 5,000 compounds.

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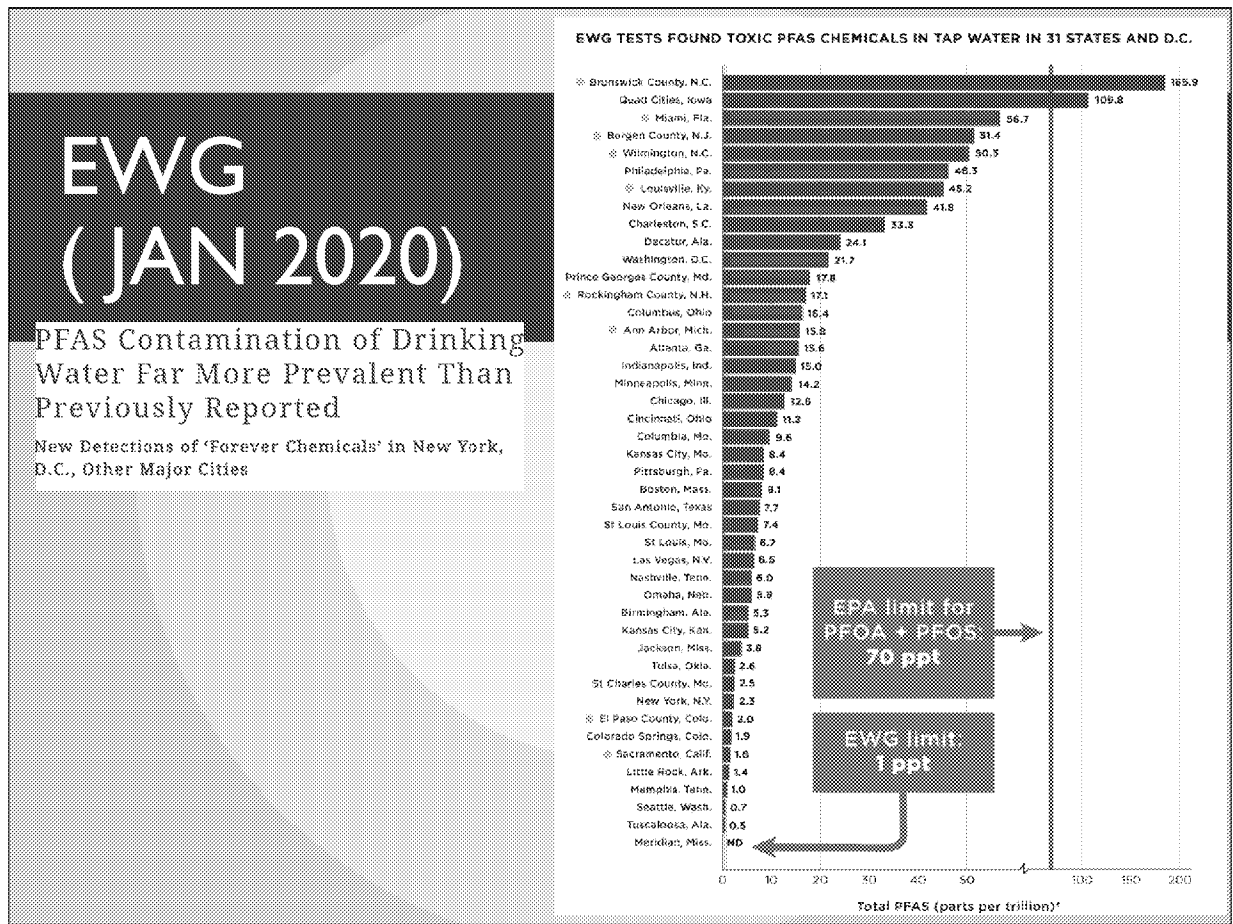
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STRINGENT STATE REQUIREMENTS

- Massachusetts:
 - 20 ppt for 6 PFAS
- Vermont:
 - 20 ppt for 5 PFAS
- New Hampshire:
 - PFOA (12ppt); PFOS (15ppt); PFHxS (18ppt) and PFNA (14ppt)
- DoD standards aligned with EPA's currently

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GEORGIA

- Dalton Land Application Site
- Summerville
- Trion
 - VWW and biosolids collected (2/5/20) with results expected within 2-3 weeks for LSASD
- Rome

Rome, Ga Files Suit Against Dalton Area Carpet Plants

POSTED BY TRENA HOWELL ON NOVEMBER 25, 2019

The City of Rome has filed a lawsuit against several Dalton-area carpet manufacturers to ensure the long-term safety and stability of its drinking water system. Edman Askew, Barry Dalton's attorney, serves as Rome City Attorney and he filed the lawsuit for the city.

The city's lawsuit was filed in response to pollution, specifically PFAs, in the Oostanaula River caused by upstream manufacturing.

Through emergency efforts taken in response to the EPA's lifetime health advisory announcement, the city has been able to provide drinking water that meets the current standards for safe water.

The city has utilized the Etowah River and Graniter Activated Carbon Filters to build a temporary answer to the problem in the Oostanaula River, but the Etowah River cannot sustain the long-term water needs of the City.

This lawsuit was filed to make the polluters eliminate the nuisance they created in the Oostanaula River, which will enable the City to, once again, utilize the Oostanaula River and provide clean, safe drinking water for years to come.

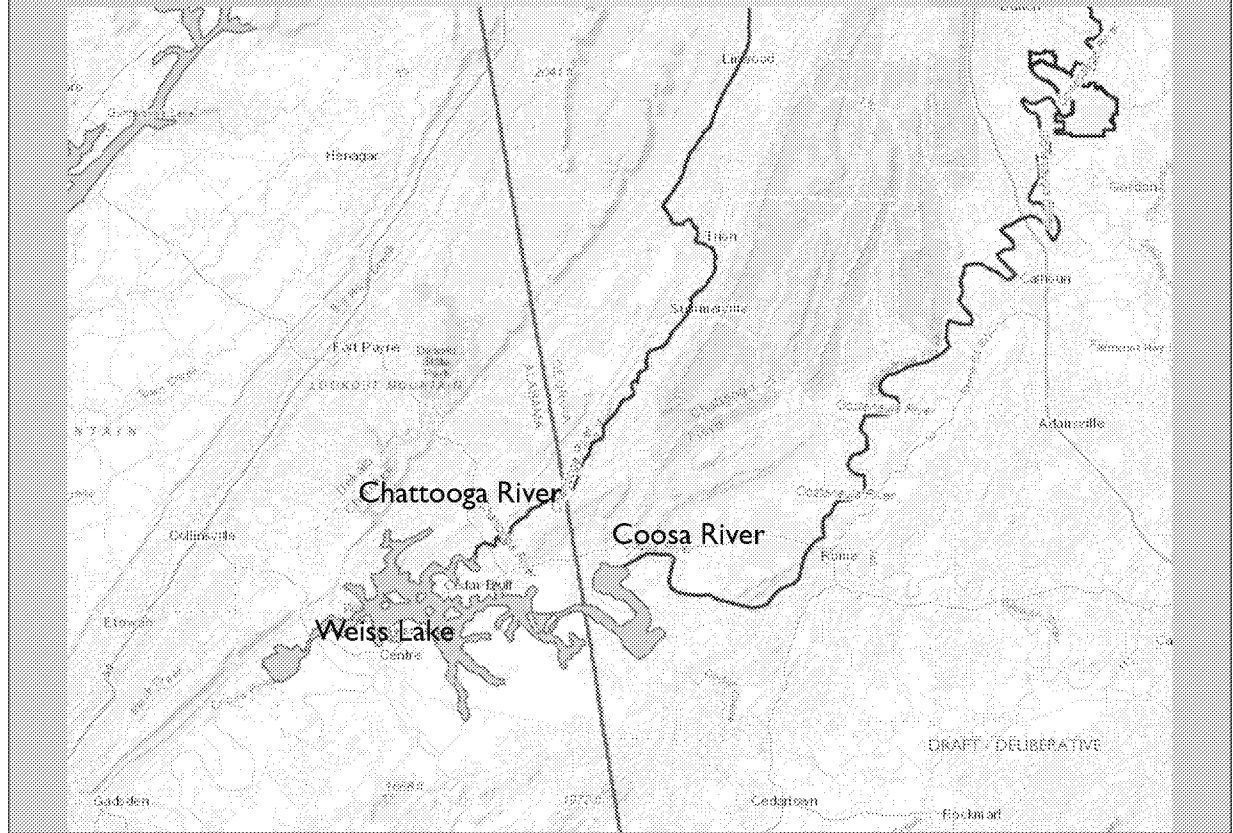
wgnm.com

 Google News

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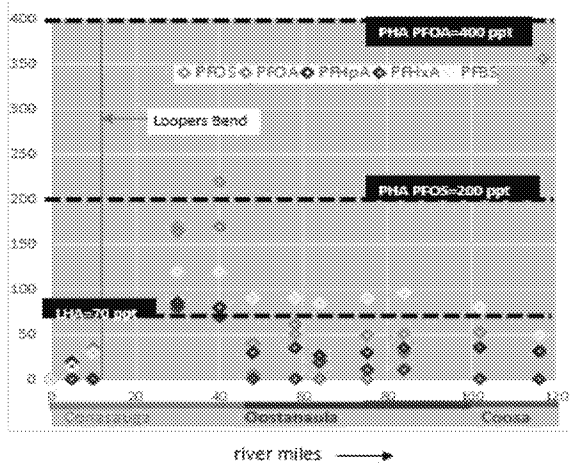
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GA/AL Cross-Jurisdictional Waters



13 co-located SW and sediment samples from LaFayette through Weiss Lake

Loopers Bend: PFAS input to downstream surface water bodies

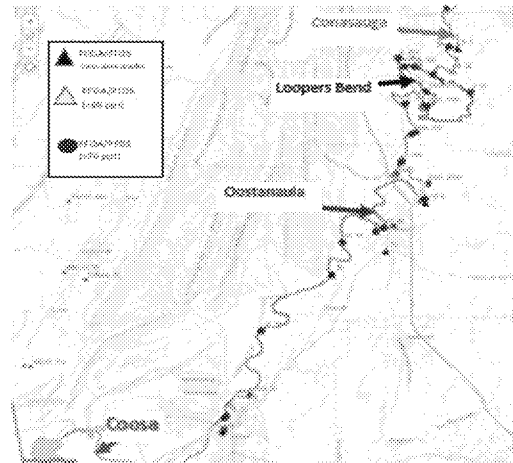


This graph shows the PFAS impact of Loopers Bend on 5 PFAS constituents in surface waters, with river miles on the X axis and PFAS concentrations (ppt) on the Y axis.

Loopers Bend is a 10,000-acre land application site located at mile-marker 12 on the Conasauga (in the above graph). The concentrations of several PFAS constituents spike after Loopers Bend. As the flow continues downstream, PFAS concentrations are diluted at confluences near the Oostanaula and Coosa

Note: Conasauga, Oostanaula and Coosa Rivers have the same color on each graphic for continuity.

2012 and 2016 Coosa River Studies

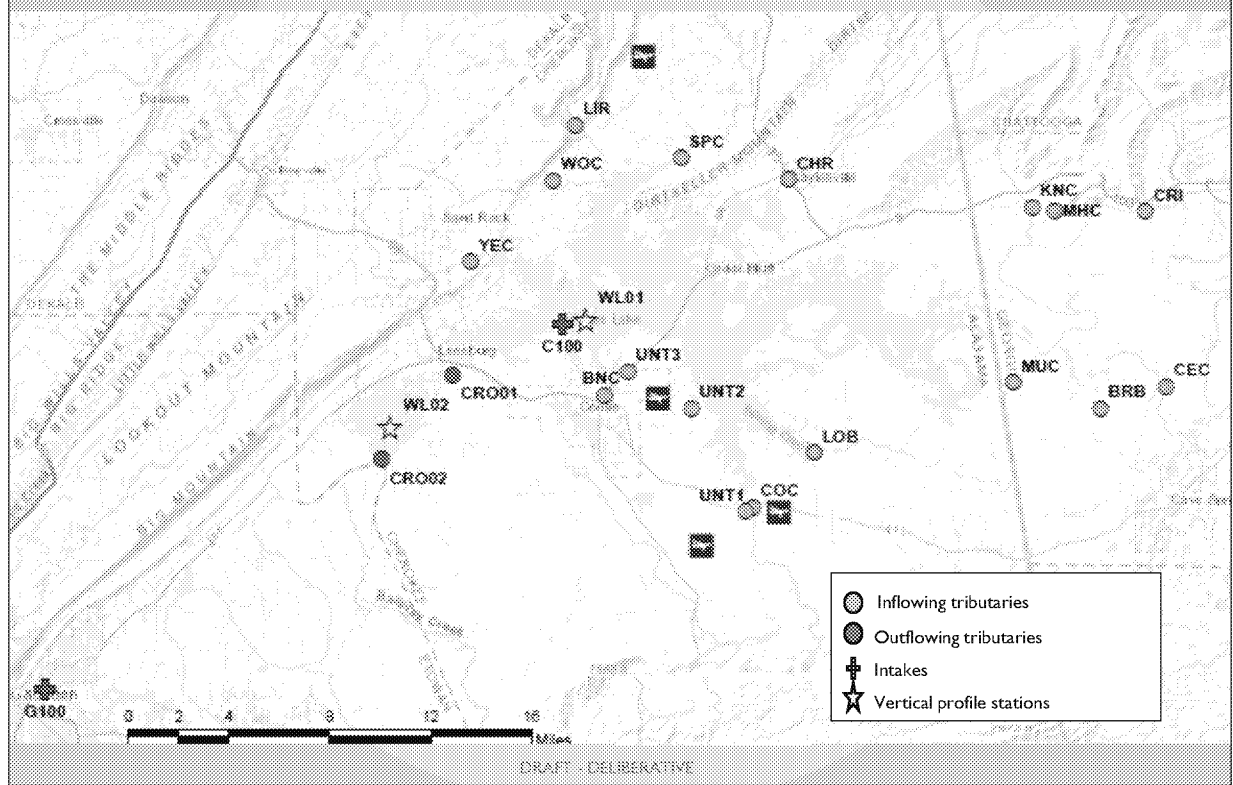


Based on the Coosa River studies (2012 and 2016), this map shows elevated PFAS concentrations near and downstream of the Loopers Bend.

The map shows the majority of the PFAS concentrations above 70 ppt begin around the Loopers Bend and have an influence on the downstream Oostanaula and Coosa Rivers.

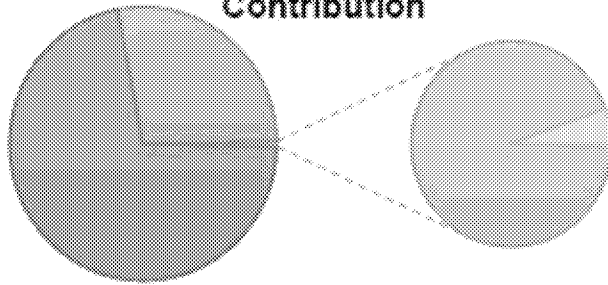
DRAFT - DELIBERATIVE

Study: Prioritization of PFAS inputs into Lake Weiss (May 2019)



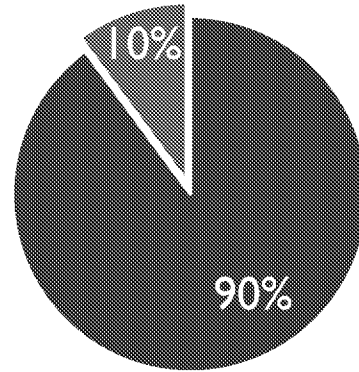
PFAS CONTRIBUTION

% Inflowing PFAS Contribution



■ Coosa River
■ Chattooga River
■ Spring Creek
■ Cowan Creek

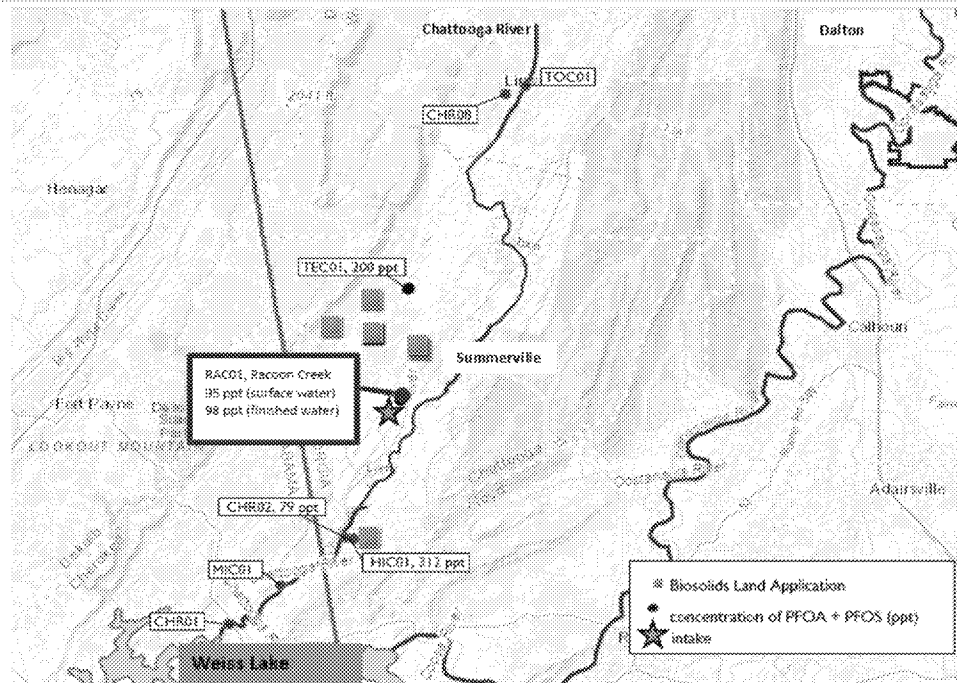
**Mass Loading:
PFOA/PFOS Contributions to Lake Weiss**



■ Coosa ■ Chattooga

DRAFT - DELIBERATIVE

Raccoon Creek Intake Sample



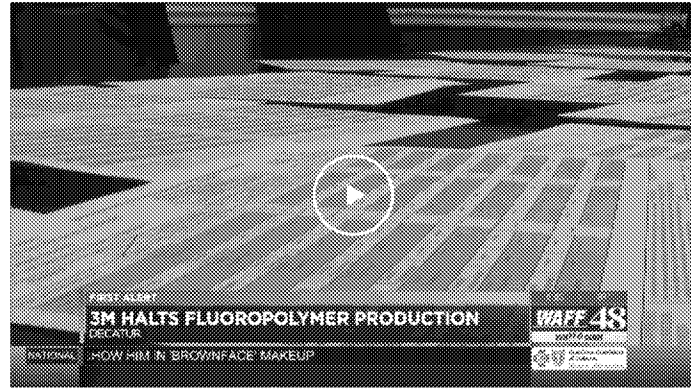
This map shows the location of seven samples collected near Biosolids Land Application sites. One of the samples, RAC01, was collected near the Raccoon Creek intake for Summerville Public Works and Utilities with results of combined PFOA and PFOS at 95 ppt in surface water (November 2019) and 98 ppt in finished water (January 2020).

ALABAMA

- Centre – GAC installation in November 2020
- Gadsden – GAC installed since December 2018
- Decatur, AL – 3M
- Statewide testing efforts 2020
 - GW – 2X/year
 - SW – 4X/year

LIMESTONE - MORGAN

Decatur's 3M plant to stop manufacturing polymer product



Decatur's 3M plant to stop manufacturing polymer product

By WAFF 48 Staff | Updated 10/19/2019 at 10:05 AM CDT - Updated 10/19/2019 at 10:05 PM

DECATUR, AL (WAFF) — Decatur's 3M plant has decided to "idle" manufacturing of a product at its 354 plant in Decatur. According to a company spokesperson the company is halting production of a fluoropolymer. According to David Whiteside with the Tennessee Riverkeeper, the fluoropolymer manufacturing process results in PFAS chemical runoff.

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NORTH CAROLINA

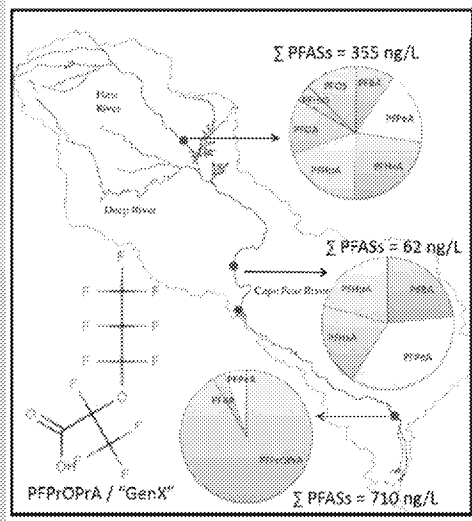
- Greensboro, NC – UCMR3 PFOS (90ppt); switched treatment options; Source identification and Pilot testing
- Pittsboro, NC – NC State/Cape Fear River, PFOA/PFOS (90 ppt); PAC installation
- MCAS Cherry Point, NC – 2 private wells above the HA, property owners provided option for municipal connection

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NORTH CAROLINA: NC STATE/CAPE FEAR RIVER STUDY

- GenX 4,560 ppt (100 miles downstream of Fayetteville, NC Dupont facility)
- ORD/LSASD Sampling
- PFAST Network - \$5M from the NC General Assembly for studies
 - Quarterly reports
 - Feb. 26, 2020 meeting



- Water sampling
- Private well monitoring
- Treatment Techniques
- Air deposition rainwater
- Bioaccumulation in aquatic, crops
- Fetus development
- Landfill
- Toxicity

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FLORIDA

- Stuart, FL
- Ocala Fire Training
- Patrick AFB/Satellite Beach – DoD site;
Citizens petitioning for Superfund declaration.
- State laboratory building capacity for PFAS testing
- Partnership w/ORD for additional sampling

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KENTUCKY



HHS Public Access

Author manuscript

Environ Pollut. Author manuscript; available in PMC 2015 September 01.

Published in final edited form as:

Environ Pollut. 2017 September ; 228: 50–60. doi: 10.1016/j.envpol.2017.04.052.

Polyfluoroalkyl substance exposure in the Mid-Ohio River Valley, 1991–2012

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^cDivision of Laboratory Sciences, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA

Abstract

Background—Industrial discharges of perfluorooctanoic acid (PFOA) to the Ohio River, contaminating water systems near Parkersburg, WV, were previously associated with nearby residents' serum PFOA concentrations above US general population medians. Ohio River PFOA concentrations downstream are elevated, suggesting Mid-Ohio River Valley residents are exposed through drinking water.

Objectives—Quantify PFOA and 10 other per- and polyfluoroalkyl substances (PFAS) in Mid-Ohio River Valley resident sera collected between 1991 and 2013 and determine whether the Ohio River and Ohio River Aquifer are exposure sources.

Methods—We measured eleven PFAS in 1608 sera from 931 participants. Serum PFOA concentration and water source associations were assessed using linear mixed-effects models. We estimated between-sample serum PFOA using one-compartment pharmacokinetics for participants with multiple samples.

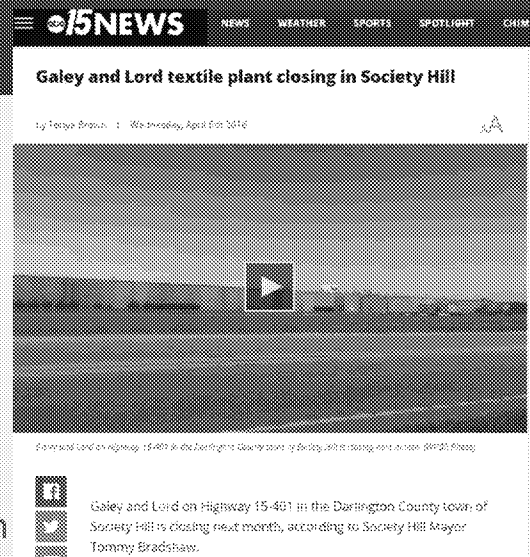
- ORSANCO – Mid-Ohio River Valley residents have higher PFOA concentrations than U.S. population
- Northern Kentucky/ Inter-regional efforts (R3 and R5)
- Biomonitoring
 - Followup Fall 2020

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SOUTH CAROLINA

- Gale & Lord – Society Hill, SC (Darlington County)
 - Farmers in the area
 - Refused bottled water offer
 - Plan to install filters on wells
- Sludge, sediments, retention ponds
- NPL listing for mercury, cadmium and chromium

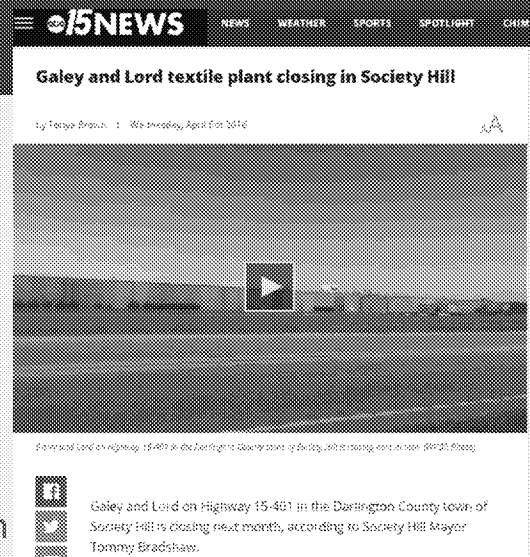


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SOUTH CAROLINA



January 30, 2020

Crescent Mobile Home Park
4100 Broad Street
Sumter, SC 29154

Dear Resident:

South Carolina Department of Health and Environmental Control (SC DHEC) recently conducted an inspection and water sampling on the three water wells in Crescent Mobile Home Park.

In this packet you will find:

1. **Sanitary Survey Inspection Report:** A Sanitary Survey is an onsite review and inspection of an entire water system, including the water source, facilities, equipment, operation and maintenance. The overall rating for this inspection was **Satisfactory**.
2. **Sampling Results:** The Department conducted both compliance sampling and non-compliance sampling. Compliance sampling results are compared to Maximum Contaminant Levels (MCLs), which are standards set by U.S. EPA for drinking water. Non-compliance sampling results do not have a standard and are not regulated by U.S. EPA or SC DHEC.

All compliance sampling results for Crescent Mobile Home Park are in compliance with MCLs and meet all regulated drinking water standards.

Sampling for PFQA and PFOS, which is non-compliance sampling, and thus not regulated, was found to be above the EPA's Lifetime Health Advisory (LHA) of 70 parts per trillion (ppt). When both PFQA and PFOS are found in drinking water, the combined concentrations of PFQA and PFOS should be compared to the 70 ppt LHA. *Please Note: Advisories are non-enforceable and non-regulatory.*

Crescent Mobile Home Park PFQA and PFOS Results	January 6, 2020	January 16, 2020
Well 1 - PFQA	26 ppt	27 ppt
Well 1 - PFOS	54 ppt	52 ppt
Well 2 - PFQA	22 ppt	21 ppt
Well 2 - PFOS	97 ppt	72 ppt**
Well 3 - PFQA	15 ppt	16 ppt
Well 3 - PFOS	76 ppt**	100 ppt**

<https://www.scdhec.gov/BOW/perfluoroalkyl-substances-pfas>

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